

Syllogus 56

Guide to the Literature for the Identification of North American Lichens

Irwin M. Brodo



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Syllogeus Series No. 56

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Printed in Canada

Séries Syllogeus No. 56

(c) Musées nationaux du Canada (1985)

Imprimé au Canada

ISSN 0704-576X

GUIDE TO THE LITERATURE FOR THE IDENTIFICATION OF
NORTH AMERICAN LICHENS

by

Irwin M. Brodo

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Ottawa, Ontario, K1A 0M8

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ABSTRACT

As an aid to the identification of North American lichens, especially those from Canada, various categories of lichens and every lichen genus known to occur in North America are listed together with the references found to be most useful in lichen determination. The categories include: general articles and books; geographic regions; crustose, foliose, and fruticose genera and species; and individual generic treatments. The bibliography has approximately 360 entries.

RESUMÉ

Dans le but d'apporter une aide pour l'identification des lichens de l'Amérique du Nord, tout particulièrement ceux du Canada, certaines catégories des lichens, et tous les genres qui sont connus en Amérique du Nord, sont catalogués avec les références les plus utiles pour l'identification des lichens. Ces catégories comprennent des articles et des livres en général; des régions géographiques; les genres et les espèces des lichens crustacés, foliacés, et fruticuleux; et des ouvrages sur les genres individuels. La bibliographie comprend environ 360 articles.

ACKNOWLEDGEMENTS

I am indebted to many lichenologists and students who have taken the time to read and comment on various drafts of this compilation. Especially helpful were John W. Thomson, Teuvo Ahti, Josef Poelt, and Clifford Wetmore. Thanks are due also to Arch Stewart of the Museum library for checking the references, and to Diana Laubitz for her very careful reading of the manuscript for editorial consistency.

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INTRODUCTION

In the course of introducing the techniques of lichen identification to numerous individuals at the National Museums, I have found it very beneficial to have a list of the most useful books and articles for given areas or groups of species available to my students. As an inexperienced lichen student at Michigan State University, I remember how grateful I was for having the excellent list compiled by Dr. Henry Imshaug to introduce the literature to his students. In a real sense, the following treatment is little more than an elaboration and up-dating of those, now well-worn, mimeographed sheets.

It is very difficult for beginning students of lichen identification to "get into" the lichen literature without a guide. David Hawksworth, realizing this, prepared a superb guide for British species (Hawksworth, 1970a), and Rolf Santesson (1984) has very recently provided a wealth of references to the lichens of Norway and Sweden. No comparable list, however, is available covering the North American lichens. It is my purpose here to help fill this gap, perhaps with a slight emphasis on northern taxa because of my preoccupation with the Canadian lichen flora. No such list can ever be complete, and indeed, I had no intention of making it complete. For the most part, I have selected those papers and books that I have found most useful in my own work. Also included are numerous references to European and Asian studies because I have often found such material of considerable value in identifying North American lichens. I may have overlooked pertinent and important references, however, and would be grateful to any reader who brings them to my attention.

The list is divided into four parts as follows:

- I. General (mostly lengthy) articles and books containing keys and covering many species;
- II. Literature for major categories of lichens or regions in North America;
- III. Literature for each of the genera of lichens found in North America, mostly monographs or revisions, but including some shorter articles covering important additions to the flora;
- IV. A complete bibliography of the literature cited in the first three parts.

In the literature guide in parts II and III, I have listed the articles and books in their approximate order of usefulness. I recognize, however, that for certain regions another order may be more appropriate. Some of the references are out-of-date but are included for their value in delimiting the taxa according to the older literature, and for their value in nomenclature. In some cases, a key that has appeared in several publications in only slightly modified form is cited in its various editions to aid the reader who may have one edition and not the other. Generally, however, I have listed only the most up-to-date version, and I have tried to avoid the needless listing of keys and articles clearly superceded by modern works covering the same subject area.

If general floristic works contain particularly useful treatments of some genera or groups of species, they have been included in Part III. For example, Magnusson (1952c), nominally a floristic treatment of a district in Sweden, contains excellent keys to Lecidea, Rhizocarpon, and Lecanora, among others. On the other hand, some floras and manuals such as those of Wirth (1980), Hale (1979), and Ozenda & Clauzade (1970) have excellent keys for so many genera that they were not cited again and again, in the interest of saving space.

Only published articles are listed, including some doctoral theses available from University Microfilms in Ann Arbor, Michigan; unpublished manuscript keys, many of them circulating rather widely among working lichenologists, are not generally available and are therefore not cited.

PART I. GENERAL REFERENCES

These references, listed in alphabetical order, contain keys to either macrolichens (fruticose and foliose species) or all species, and they cover significant areas. Complete bibliographic citations can be found in Part IV.

Brodo, 1968a: The lichens of Long Island, New York...

Brodo, 1981. The lichens of the Ottawa region.

Dahl & Krog, 1973. Macrolichens of Denmark, Finland, Norway and Sweden.

Dey, 1978. Fruticose and foliose lichens of the high-mountain areas of the southern Appalachians.

Duncan, 1970. Introduction to British lichens.

Fink, 1935. The lichen flora of the United States.

Hale, 1979. How to know the lichens, 2nd edition.

Harris, 1977. Lichens of the Straits Counties, Michigan.

Magnusson, 1952c. Lichens from Torne Lappmark.

Ozenda & Clauzade, 1970. Les lichens...

Poelt, 1969. Bestimmungsschlüssel europäischer Flechten.

Poelt & Vězda, 1977. (as above) Ergänzungsheft I.

Poelt & Vězda, 1981. (as above) Ergänzungsheft II.

Smith, A.L. 1918, 1926. A monograph of the British lichens, I & II.

Taylor, C. 1967, 1968. The lichens of Ohio, I & II.

Thomson, 1984. American Arctic lichens.

Wetmore, 1967. Lichens of the Black Hills...

Wirth, 1980. Flechtenflora...

PART II. SELECTED REFERENCES BY GROUP AND REGION

Keys to genera or families: Poelt & Vězda, 1981; Harris, 1977; Brodo, 1981, 1968a; Wetmore, 1967, 1981; Fink, 1935; Poelt, 1969; Wirth, 1980; Ozenda & Clauzade, 1970. (Pyrenomycete lichens): Vězda, 1968; Harris, 1975b. (Physciaceae): Haffelner et al., 1979

Species of macrolichens: Hale, 1979; Brodo, 1981; Harris, 1977; Thomson, 1984; Dahl & Krog, 1973; Poelt, 1969; Poelt & Vězda, 1977, 1981; C. Taylor, 1967, 1968

Species of crustose lichens: Brodo, 1981; Harris, 1977; Brodo, 1968a; Magnusson, 1952c; Poelt, 1969; Poelt & Vězda, 1977, 1981; Ozenda & Clauzade, 1970; Wirth, 1980; Wetmore, 1967, 1981; Duncan, 1970; (pyrenocarpous species): Harris, 1973; Coppins, 1984

Lichen parasites: Hawksworth, 1979, 1981, 1983; Clauzade & Roux, 1976; Keissler, 1930

Arctic species: Thomson, 1984, 1979; Lynge & Scholander, 1932; Lynge, 1937, 1940; Hale, 1954; Hertel, 1981

Boreal and hemiarctic species: Thomson et al., 1969; Ahti, 1964; Dahl & Krog, 1973; Magnusson, 1952c; Ahti et al., 1973; Ahti & Hepburn, 1967; Krog et al., 1980

Central North America: Wetmore, 1967, 1981

Northeastern United States and eastern Canada: Brodo, 1981; Harris, 1977; Brodo, 1968a; C. Taylor, 1967, 1968; Lamb, 1954; Degelius, 1940

Southeastern United States: Moore, 1968; Dey, 1978; Degelius, 1941; Tucker & Harris, 1980

Western North America: Noble, 1982; Howard, 1950; Krog, 1968; Imshaug, 1957b; Bird & Marsh, 1973a,b; Herre, 1910; Hasse, 1913

Maritime lichens: R. Taylor, 1982; Fletcher, 1975a,b

PART III. GENERIC REVISIONS OR MONOGRAPHS

Absconditella	Vězda, 1965b; Poelt & Vězda, 1977
Acarospora	Clauzade et al., 1981; Magnusson, 1929a-c, 1956; Wetmore, 1967; Poelt, 1969; Weber, 1968
Actinogyra	(see <u>Umbilicaria</u>)
Agrestia	Thomson, 1960; Brodo, 1977
Agyrophora	(see <u>Umbilicaria</u>)
Alectoria	Brodo & Hawksworth, 1977
Allantoparmelia	Poelt & Vězda, 1981
Amygdalaria	Poelt & Vězda, 1981; Inoue, 1984
Anaptychia	Kurokawa, 1959-61, 1962, 1973; W. Culberson, 1966b
Anisomeridium	Tucker & Harris, 1980
Anzia	
Apatoplaca	Poelt & Hafellner, 1980
Arctomia	Henssen, 1969b
Argopsis	Lamb, 1974
Arthonia	Fink, 1935; Redinger, 1937; Willey, 1890
Arthopyrenia	Harris, 1973, 1975; Swinscow, 1965 (marine), 1970; Vainio, 1921; Tucker & Harris, 1980
Arthothelium	Coppins & James, 1979a; Fink, 1935; Redinger, 1937
Asahinea	W. Culberson & C. Culberson, 1965
Aspicilia	Magnusson, 1939, 1952c
Astroplaca	Poelt & Vězda, 1981; Hertel, 1977
Bacidia	Vainio, 1922; Christiansen et al., 1979
Baeomyces	Thomson, 1967a; Poelt, 1969; R. Taylor, 1972; Galloway, 1980
Belonia	Swinscow, 1964; Fink, 1935; Jørgensen et al., 1983
Biatorella	Fink, 1935; Magnusson, 1934b, 1935b; James, 1971; Poelt & Vězda, 1977 (see also <u>Strangospora</u>); Hawksworth & Sherwood, 1981
Blastenia	(see <u>Caloplaca</u>)
Bombyliospora	(see <u>Letrouitia</u>)
Botrydina	(see <u>Omphalina</u>)
Brigantiaea	Poelt & Vězda, 1981; Hafellner, 1981
Bryonora	Poelt, 1983
Bryoria	Brodo & Hawksworth, 1977

Buellia	Imshaug, 1951; Poelt & Sulzer, 1974; Sheard, 1964, 1969; Weber, 1971; Schauer, 1965
Bulbothrix	Hale, 1976b (see also <u>Parmelia</u>)
Calicium	Tibell, 1975, 1977; Poelt & Vězda, 1981; Keissler, 1937
Caloplaca	Wirth, 1980; Wade, 1965; Magnusson, 1944a, b, 1950, 1952c; Poelt, 1954; Wunder, 1974; Lynge, 1940; Rudolph, 1955; Hafellner & Poelt, 1979
Campylothelium	Tucker & Harris, 1980
Candelaria	Hillmann, 1936; Poelt, 1974
Candelariella	Hakulinen, 1954; Thomson, 1973; Poelt & Vězda, 1977
Candelina	Poelt, 1974
Catapyrenium	(see <u>Dermatocarpon</u> , <u>D. hepaticum</u> group)
Catillaria	Magnusson, 1952c; Vainio, 1934; Kiliyas, 1981 (see also <u>Catinaria</u>)
Catinaria	Poelt & Vězda, 1981; Vainio, 1934
Cavernularia	Ahti & Henssen, 1965
Cetraria	Ohlsson, 1973a; Thomson et al., 1969; Esslinger, 1973; Kärnefelt, 1979; Poelt & Vězda, 1981; W. Culberson & C. Culberson, 1967
Cetrariastrum	Hale, 1976d; W. Culberson & C. Culberson, 1981; Sipman, 1980
Cetrelia	W. Culberson & C. Culberson, 1968
Chaenotheca	Tibell, 1975, 1980; Poelt, 1969; Poelt & Vězda, 1981; Keissler, 1938
Chaenothecopsis	Tibell, 1975
Chiodecton	W. Culberson, 1964; Brodo, 1968b; Fee, 1829
Chrysothrix	Laundon, 1980
Cladina	Ahti, 1961; Thomson, 1967b; Poelt & Vězda, 1977
Cladonia	Thomson, 1967b; Poelt & Vězda, 1977; Ahti 1973b, 1978, 1980a, 1980b, 1983; W. Culberson, 1969; Harris, 1975a; Brodo, 1968a; Vainio, 1887, 1894, 1897
Coccocarpia	Arvidsson, 1982; Poelt & Vězda, 1981
Coccotrema	Brodo, 1973
Coenogonium	Uyenco, 1963
Collema	Degelius 1954, 1974
Coniocybe	Tibell, 1975; Poelt & Vězda, 1981; Keissler, 1938
Conotrema	Poelt & Vězda, 1977; Gilenstam, 1969
Cora	Parmasto, 1978

Coriscium	(see <u>Omphalina</u>)
Cornicularia	Dahl & Krog, 1973; Poelt, 1969
Cyphelium	Tibell, 1971, 1975; Weber, 1967; Poelt & Vězda, 1977; Keissler, 1938
Cystocoleus	Fink, 1935
Dactylina	Thomson & Bird, 1978; Dahl & Krog, 1973
Dendriscocaulon	
Dendrographa	
Dermatocarpon	Wetmore, 1967; Poelt, 1969; Zschacke, 1933
Desmazieria	(see <u>Niebla</u>)
Dictyonema	Parmasto, 1978
Dimelaena	Sheard, 1974, 1977; Poelt & Vězda, 1977
Dimerella	Poelt & Vězda, 1977
Diploicia	Poelt & Vězda, 1981
Diploschistes	Poelt, 1969; Fink, 1935
Dirina	Tehler, 1983; Poelt & Vězda, 1977
Dirinaria	Awasthi, 1975; Thomson, 1963; Kashiwadani, 1975
Endocarpon	Poelt, 1969; Fink, 1935
Enterographa	Poelt & Vězda, 1977; Redinger, 1938a
Eopyrenula	Harris, 1973; Poelt & Vězda, 1981
Ephebe	Henssen, 1963c
Erioderma	Keuk, 1977; Ahti & Jørgensen, 1971; Maass, 1980; Poelt & Vězda, 1977
Evernia	Bird, 1974; Howe, 1911
Everniastrum	(see <u>Cetrariastrum</u>)
Fistulariella	(see <u>Ramalina</u>)
Flavopunctelia	Hale, 1984b (see also <u>Parmelia</u> : Pseudocyphellate and <u>Punctelia</u>)
Forsselia	Henssen, 1970; Fink, 1935
Fulgensia	Poelt & Vězda, 1977; Gilbert, 1978
Fuscidea	Poelt & Vězda, 1981; Inoue, 1981a, b (see also <u>Lecidea</u>)
Gomphillus	Esslinger, 1975
Gonohymenia	Henssen, 1970
Graphina	Wirth & Hale, 1963, 1978; Nakanishi, 1966

Graphis	Wirth & Hale, 1963, 1978; Nakanishi, 1966; Fink, 1935; Redinger, 1938b
Gyalecta	Poelt, 1969
Gyalidea	Poelt & Vězda, 1977
Gyalideopsis	Poelt & Vězda, 1977; James, 1975
Gymnoderma	Yoshimura & Sharp, 1968
Gyrophora	(see <u>Umbilicaria</u>)
Haematomma	W. Culberson, 1963b; Thomson, 1968
Heppia	Wetmore, 1970
Herpothallon	W. Culberson, 1964
Heterodermia	W. Culberson, 1966b; Kurokawa, 1962, 1973 (sub <u>Anaptychia</u>)
Huilia	Inoue, 1976, 1982, 1983; (see references under <u>Lecidea</u>)
Hydrothyria	Fink, 1935
Hymenelia	Poelt & Vězda, 1981
Hyperphyscia	Poelt & Vězda, 1981; Hafellner et al., 1979; Thomson, 1963 (sub <u>Physcia</u>); Poelt, 1965 (sub <u>Physciopsis</u>); Moberg, 1977 (sub <u>Physciopsis</u>)
Hypocenomyce	Schneider, 1979; Poelt & Vězda, 1981
Hypogymnia	Ohlsson, 1973a; Poelt & Vězda, 1977 ; Thomson et al., 1969; Krog, 1968, 1974; Rassadina, 1967; Pike & Hale, 1982
Hypotrachyna	Hale, 1974b, 1975a (see also under <u>Parmelia</u>)
Icmadophila	Imshaug, 1972
Ionaspis	Magnusson, 1933
Koerberia	Henssen, 1963f; Poelt & Vězda, 1977
Lasallia	Llano, 1950; Poelt & Vězda, 1977
Laurera	Letrouit-Galinou, 1957, 1958
Lecanactis	Poelt, 1969; Brodo, 1977
Lecania	Poelt, 1969; Magnusson, 1952c
Lecanora	Magnusson, 1952c; Poelt & Vězda, 1981; Poelt, 1969 (p.p.); Thomson et al., 1969; Imshaug & Brodo, 1966 (<u>pallida</u> group); Poelt & Vězda, 1977 (subgenus <u>Placodium</u>); Brodo, 1984 (<u>subfusca</u> group); (see also <u>Bryonora</u>)
Lecidea	Lowe, 1939; Hertel, 1967, 1975, 1977, 1981; Anderson, 1964; Magnusson, 1952c; Thomson et al., 1969 ; Vainio, 1934; Lynge, 1940; Magnusson, 1935a, 1952a,b; C. Culberson & Hertel, 1979; Inoue, 1982; (see also <u>Placynthiella</u> [<u>L. uliginosa</u> group], and <u>Trapeliopsis</u> [<u>L. granulosa</u> group])
Lecidella	Poelt & Vězda, 1981 ; Hertel (see above); Magnusson, 1945; Lowe, 1939 (p.p.); Leukert & Hertel, 1967; Inoue, 1982

Leciophysma	Henssen, 1965
Lempholemma	Henssen, 1968b
Lepraria	Brodo, 1968a; Laundon, 1962, 1963; Harris, 1977; Almborn, 1952
Leprocaulon	Lamb & Ward, 1974
Leptochidium	Poelt & Vězda, 1977 (see <u>Pseudoleptogium</u>)
Leptogium	Sierk, 1964; Jørgensen, 1973, 1975 (sect. <u>Mallotium</u>); Jørgensen & James, 1983; Poelt & Vězda, 1977
Leptorhaphis	Harris, 1973; Swinscow, 1965
Leptotrema	Hale, 1974e, 1978
Letharia	Thomson, 1969
Letrouitia	Hafellner, 1981
Lichenothrix	Henssen, 1964
Lichina	Henssen, 1969a
Lichinella	Henssen, 1963c, 1968c
Lichenodium	Henssen, 1963c, 1968a
Lobaria	Jordan, 1973; Yoshimura, 1971
Lopadium	Poelt & Vězda, 1977 ; Poelt, 1969; Fink, 1935; Kurokawa & Kashiwadani, 1977 (see also <u>Letrouitia</u>)
Maronea	Magnusson, 1934a
Masonhalea	Kärnefelt, 1977
Massalongia	Henssen, 1963b
Mastodia	(see <u>Turgidosculum</u>)
Megalospora	Sipman, 1983
Melanelia	Esslinger, 1978a (see also under <u>Parmelia</u> : <u>Melanoparmelia</u>)
Melanolecia	Poelt & Vězda, 1981
Melanotheca	Fink, 1935; Keissler, 1937
Melaspilea	Redinger, 1938b
Menegazzia	Poelt, 1969; Dahl & Krog, 1973
Micarea	Coppins, 1983; Hedlund, 1892; Poelt & Vězda, 1977 ; Vězda & Wirth, 1976; Christiansen et al., 1979
Microcalicium	Tibell, 1978
Microglæna	Poelt, 1969; Morgan-Jones & Swinscow, 1965; Harris, 1973
Microthelia	Harris, 1973
Multiclavula	Poelt, 1969; Peterson, 1967

Mycoblastus	Schauer, 1964; Poelt, 1969; Poelt & Vězda, 1977
Mycocalicium	Tibell, 1975; Schmidt, 1970
Mycoporellum	Keissler, 1937
Mycoporum	Harris, 1973; Coppins & James, 1979a
Neofuscelia	Esslinger, 1978a (see also <u>Parmelia</u> : <u>Melanoparmelia</u>)
Nephroma	Wetmore, 1960, 1980
Neuropogon	Poelt, 1969; Lamb, 1939
Niebla	Rundel & Bowler, 1978
Normandina	W. Culberson & Hale, 1966
Ocellularia	Hale, 1973, 1974e, 1978
Ochrolechia	Howard, 1970; Versegny, 1962; Ahti et al, 1973; Laundon, 1963 (sterile species)
Omphalina	Poelt & Vězda, 1981 ; Heikkila & Kallio, 1966, 1969; Bigelow, 1970; Gams, 1962; Poelt & Oberwinkler, 1964
Omphalodiscus	(see <u>Umbilicaria</u>)
Omphalodium	Egan, 1972
Opegrapha	Redinger, 1938b; Wirth, 1980; Pentecost & Coppins, 1983
Oropogon	Esslinger, 1980a
Pachyphiale	Poelt, 1969
Pannaria	Jørgensen, 1978; Poelt & Vězda, 1977; Weber, 1965
Parmelia	[<u>Amphigymnia</u>]: Hale, 1965a; Krog & Swinscow, 1981 (see <u>Parmotrema</u>) [<u>Melanoparmelia</u>]: Ahti, 1966, 1969; Esslinger, 1977, 1978a; Poelt & Vězda, 1981 (see also <u>Melanelia</u> and <u>Neofuscelia</u>) [<u>Pseudocyphellata</u>]: Hale, 1965b, 1980; W. Culberson, 1962; W. Culberson & C. Culberson, 1956 (see also <u>Punctelia</u> and <u>Flavopunctelia</u>) [<u>Xanthoparmelia</u>]: Nash, 1974; Poelt & Vězda, 1981; Hale, 1964 (see also <u>Xanthoparmelia</u>) [general]: Hale & Kurokawa, 1964; Berry, 1941; Thomson et al., 1969 ; Kurokawa, 1976; James, 1982; Skult, 1984 (see also <u>Bulbothrix</u> , <u>Hypotrachyna</u> , <u>Parmelina</u> , <u>Pseudoparmelia</u> , and <u>Relicina</u>)
Parmeliella	Jørgensen, 1978; Poelt & Vězda, 1977
Parmelina	Hale, 1976c; Poelt & Vězda, 1977
Parmeliopsis	Meyer, 1982; Hale, 1967; W. Culberson, 1955; Riddle, 1917; Hillmann, 1936
Parmentaria	Imshaug & Harris, 1969
Parmotrema	Poelt & Vězda, 1977; Hale, 1974a,d, 1977 (see also <u>Parmelia</u> : <u>Amphigymnia</u>)

Peltigera	Thomson, 1950; Poelt & Vězda, 1981; Ahti & Vitikainen, 1977; Vitikainen, 1982
Pertusaria	Dibben, 1980; Thomson et al., 1969 ; Laundon, 1963 (sterile); Oshio, 1968
Petractis	Poelt, 1969; Vězda, 1965a
Phaeographina	Nakanishi, 1977
Phaeographis	Fink, 1935 ; Poelt, 1969; Nakanishi, 1966 (see <u>Graphis</u>); Wirth & Hale, 1963, 1978; Poelt & Vězda, 1981
Phaeophyscia	Esslinger, 1978a,b, 1980b; Moberg, 1977, 1978, 1983a
Phaeorrhiza	Mayrhofer & Poelt, 1978; Poelt & Vězda, 1981
Phlyctella	
Phlyctidia	
Phlyctis	Poelt, 1969
Phylliscum	Henssen, 1963e
Phyllopsora	Poelt & Vězda, 1981; Swinscow & Krog, 1981
Physcia	Thomson, 1963; Moberg, 1977; Wade, 1960; Esslinger, 1979; Kashiwadani, 1975
Physciopsis	(see <u>Hyperphyscia</u>)
Physconia	Thomson, 1963 (sub <u>Physcia</u>); Poelt, 1965, 1966; Vitikainen, 1968; Moberg, 1977; Kashiwadani, 1975
Pilophorus	Jahns, 1970, 1981; Poelt & Vězda, 1977
Placidiopsis	Harris, 1979b; Zschacke, 1933
Placopsis	Lamb, 1947
Placythiella	Coppins & James, 1984
Placynthium	Henssen, 1963a
Plagiocarpa	Harris, 1973; Tucker & Harris, 1980
Platismatia	W. Culberson & C. Culberson, 1968
Platygraphopsis	
Pleurotheliopsis	Henssen, 1970
Pleurotrema	
Polyblastia	Zschacke, 1933; Swinscow, 1971; Servit, 1954
Polyblastiopsis	Harris, 1973; Keissler, 1937
Polychidium	Henssen, 1963c; Ohlsson, 1973a
Polymeridium	Tucker & Harris, 1980
Polysporina	Vězda, 1978; Poelt & Vězda, 1981

Porina	Harris, 1973; Swinscow, 1962, 1965; Poelt & Vězda, 1977; Keissler, 1937; Tucker & Harris, 1980
Porocyphus	Henssen, 1963c, 1966
Protoblastenia	Poelt, 1969; Poelt & Vězda, 1977
Pseudephebe	Brodo & Hawksworth, 1977; Poelt & Vězda, 1981
Pseudevernia	Hale, 1968; Poelt & Vězda, 1977 ; W. Culberson et al., 1977
Pseudocyphellaria	Poelt & Vězda, 1981; Coppins & James, 1979b
Pseudoparmelia	Poelt & Vězda, 1977; Hale, 1974c, 1976a
Pseudopyrenula	Harris, 1975b; Tucker & Harris, 1980
Psilolechia	Poelt & Vězda, 1981
Psora	Schneider, 1979; Poelt & Vězda, 1981
Psorina	Schneider, 1979; Poelt & Vězda, 1981
Psorula	Schneider, 1979; Poelt & Vězda, 1981
Psoroma	Jørgensen, 1978
Psorotichia	Poelt, 1969; Ozenda & Clauzade, 1970
Pterygiopsis	Henssen, 1963c
Punctelia	Krog, 1982
Pycnothelia	Thomson, 1967b (sub <u>Cladonia</u>)
Pyrenastrum	Tucker & Harris, 1980
Pyrenidium	
Pyrenocollema	Tucker & Harris, 1980
Pyrenopsidium	
Pyrenopsis	
Pyrenula	Harris, 1973; Poelt & Vězda, 1981; Keissler, 1937; Tucker & Harris, 1980
Pyrrhospora	Poelt & Vězda, 1981
Pyxine	Imshaug, 1957a; Moberg, 1983b
Racodium	Hawksworth, 1970b
Ramalina	Krog & James, 1977; Howe, 1913, 1914; W. Culberson, 1966a; Wade, 1961; Krog & Swinscow, 1976; Concepción, 1972; Keissler, 1959
Ramonia	Vězda, 1966, 1967a, 1973
Reinkella	
Relicina	Hale, 1975b

Rhizocarpon	[general]: Feuerer, 1978; Thomson, 1967c; Magnusson, 1952c; Gelting, 1954 [yellow species]: Poelt & Vězda, 1977; Runemark, 1956 [non-yellow species]: Poelt & Vězda, 1981
Rhizoplaca	Poelt & Vězda, 1977
Rinodina	Magnusson, 1947; Sheard, 1967, 1982; Mayrhofer & Poelt, 1979; Myerhofer, 1984 (saxicolous species); Poelt & Vězda, 1981
Rinodinella	Poelt & Vězda, 1981; Mayerhofer, 1984
Roccella	Poelt, 1969; Darbishire, 1898
Roccellina	Tehler, 1983
Ropalospora	Hertel, 1981
Sagirolechia	Vězda, 1967b
Sarcographa	
Sarcogyne	Magnusson, 1934b, 1935b; Vězda, 1978 (sub <u>Polysporina</u>)
Schadonia	Poelt & Vězda, 1981
Schismatomma	Poelt, 1969; Poelt & Vězda, 1977 ; Laundon, 1963 (sterile species)
Schizopelte	
Sclerophyton	Redinger, 1938a
Scoliciosporum	Poelt & Vězda, 1981 ; Vězda, 1978; Ahti & Vitikainen, 1974
Siphula	Mathey, 1974; J. Santesson, 1967
Solenospora	Poelt, 1969
Solorina	Poelt, 1969
Solorinella	Poelt & Vězda, 1969
Speerschneidera	Hafellner & Egan, 1981
Sphaerophorus	Ohlsson, 1973b; Poelt, 1969; Sato & Ozawa, 1974; Lye, 1969
Sphinctrina	Löfgren & Tibell, 1979; Poelt, 1969; Tibell, 1975; Poelt & Vězda, 1981; Keissler, 1938
Spilonema	Henssen, 1963c
Sporastatia	Poelt, 1969; Magnusson, 1935b
Squamarina	Poelt, 1969; Poelt & Krüger, 1970
Staurothele	Zschacke, 1933; Swinscow, 1963, 1965
Stenocybe	Tibell, 1975; Poelt & Vězda, 1977; Keissler, 1938
Stereocaulon	Lamb, 1977, 1978; Poelt & Vězda, 1977; Dahl & Krog, 1973; Kershaw, 1960
Sticta	Poelt, 1969

Strangospora	Poelt & Vězda, 1977
Strigula	R. Santesson, 1952; Tucker & Harris, 1980
Sulcaria	Brodo & Hawksworth, 1977
Synalissa	Poelt, 1969
Tapellaria	R. Santesson, 1952
Teloschistes	Poelt, 1969; Thomson, 1949; Rudolph, 1955; Hillmann, 1935; Filson, 1969
Texosporium	Tibell & v. Hofsten, 1968
Thamnomia	W. Culberson, 1963a; Sheard, 1977
Thelidium	Zschacke, 1933; Servit, 1954
Thelocarpon	Ahti, 1973a; Poelt & Vězda, 1977; Salisbury, 1966
Thelomma	Tibell, 1976; Poelt & Vězda, 1981
Thelopsis	Vězda, 1968; Harris, 1979a
Thelotrema	Hale, 1972, 1973, 1974e, 1978; Poelt & Vězda, 1981
Thermutis	Henssen, 1963c
Tholurna	Otto, 1964, 1983
Thrombium	Swinscow, 1964; Bird & Beil, 1973
Thyrea	Henssen, 1968b; Yoshimura, 1968; Poelt, 1969
Tomasellia	Harris 1975b; Tucker & Harris, 1980
Toninia	Poelt, 1969; Magnusson, 1952c; Baumgärtner, 1979
Tornabea	Poelt & Vězda, 1981
Tornabeniopsis	(see <u>Tornabea</u>)
Trapelia	Hertel, 1969, 1970; Coppins & James, 1984
Trapeliopsis	Poelt & Vězda, 1981; Coppins & James, 1984
Tremolecia	Poelt & Vězda, 1981
Trimmatothele	
Trypethelium	Johnson, 1959
Turgidosculum	Kohlmeyer & Kohlmeyer, 1979; Brodo, 1977; Schatz, 1980
Umbilicaria	Llano, 1950; Thomson et al., 1969; Hakulinen, 1962; Kershaw, 1961; Poelt & Vězda, 1981; Bird & Marsh, 1973b
Usnea	Dahl & Krog, 1973; Motyka, 1936-38; Swinscow & Krog, 1974, 1978, 1979; Keissler, 1959-60
Varicellaria	Erichsen, 1935; Oshio, 1968
Verrucaria	[general]: Zschacke, 1933; Servit, 1954 [freshwater]: Swinscow, 1968 [saltwater]: R. Taylor, 1974, 1982; Fletcher, 1975a, b

Vestergrenopsis Henssen, 1963d
Xanthoparmelia Hale, 1984a (see also Parmelia: Xanthoparmelia)
Xanthoria Thomson, 1949; Rudolph, 1955; Poelt, 1969; Hillmann, 1935;
Filson, 1969
Xylographa Redinger, 1938b
Zahlbrucknerella Henssen, 1977

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